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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/544,898	09/12/2005	Matti Hietanicmi	METSO-45	6479
36528 STIENNON &	7590 01/29/200 STIFNNON	8	EXAMINER	
612 W. MAIN ST., SUITE 201 P.O. BOX 1667 MADISON, WI 53701-1667			HUG, ERIC J	
			ART UNIT	PAPER NUMBER
MADISON, W	1 33/01-100/		1791	
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			01/29/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

## Disposition of Claims ### Disposition is picked to by the Examiner. ### Disposition is objected to by the Examiner. ### Disposition is objected to by the Examiner. #### Disposition of Claims #### Disposition is objected to by the Examiner. #### Disposition of Claims #### Disposition is objected to by the Examiner. #### Disposition of Claims #### Disposition is objected to by the Examiner. #### Disposition of Claims #### Disposition is objected to by the Examiner. #### Disposition of Claims ##### Disposition is objected to by the Examiner. ##### Disposition of Claims ##### Disposition is objected to by the Examiner. ##### Disposition is Disposition is objected to by the Examiner. ###################################		Application No.	Applicant(s)				
Examiner Enc Hug - The MAILING DATE of this communication appears on the cover sheet with the correspondence address → Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CPR 1.138(a), his no event, however, may a rapply be timely filed. I NO pointed irreply is specified slow-the maximum statutory period will appear and will appear the million of the communication. Failure to reply within the set or estanded period for reply will, by statutory period will appear will express MIQ MONTHS from he milling date of this communication. Failure to reply within the set or estanded period for reply will, by statutory period will appear will express MIQ MONTHS from he milling date of this communication, even if limiting filed, may reduce any exemple parent term equirement. Set 37 CPR 1.754(b). Status 1) □ Responsive to communication(s) filed on 08 August 2005. 2a) □ This action is FINAL. 2b) □ This action is FINAL. 2b) □ This action is non-filinal. 3) □ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) □ Claim(s) 20-29 is/are pending in the application. 4a) Of the above claim(s) is/are allowed. 5) □ Claim(s) 27-39 is/are objected to. 8) □ Claim(s) 27-39 is/are objected to by the Examiner. 10) □ The specification is objected to by the Examiner. 10) □ The specification is objected to by the Examiner. Application Papers 9) □ The specification is objected to by the Examiner. Application Papers 9) □ The specification is objected to by the Examiner. 10) □ The cath or declaration is objected to by the Examiner. 10) □ The cath or declaration is objected to by the Examiner. 10) □ The cath or declaration is objected to by the Examiner. Note the attach							
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A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 2 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. □ Exercisions of firms may be available under the provisions of 37 CPR 1.38(a), in no event, however, may a reply be timely filled. □ If No period for reply is specified but only the provisions of 37 CPR 1.38(a), in no event, however, may a reply be timely filled. □ If No period for reply is specified but only the provisions of 37 CPR 1.38(a), in no event, however, may a reply be timely filled on the realing acts of this communication. □ If No period for reply is pecified in the provisions of 37 CPR 1.78(a). □ If No period to reply is pecified but the provisions during the mailing date of this communication, even if timely filled, may reduce any exemple guarant term adjustment. See 37 CPR 1.79(b). ■ Responsive to communication(s) filled on 08 August 2005. ■ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. ■ Disposition of Claims ■ A) □ Claim(s) 20-39 is/are pending in the application. ■ A) □ Of the above claim(s) is/are allowed. □ Claim(s) 20-39 is/are objected to. □ Claim(s) 20-39 is/are objected to. □ Claim(s) 20-39 is/are objected to. □ Claim(s) 20-30 is/are objected to by the Examiner. ■ Objection Papers ■ The drawing(s) filed on 08 August 2005 is/are: a) □ accepted or b) □ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). ■ Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). ■ The drawing(s) filed on 08 August 2005 is/are: a) □ accepted or b) □ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). ■ Replacement drawing sheet(s) including the correction is r)					
WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Edendous of time may be available under the provision of 37 CPR 1.76(8). In or event, however, may a reply be limely fled after SIX (6) MONTHS from the mailing date of this communication. Flat performs the provision of the communication of the provision of the	The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
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Paper No(s)/Mail Date 6) Other:	3) Information Disclosure Statement(s) (PTO/SB/08)	5) 🔲 Notice of Informal F					

DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 20-26 and 31-39 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hautala et al (US 6,267,845).

Hautala discloses arrangements for the short circulation in a paper machine including stock chests for different component stocks M_i (M_1 , M_2 , M_3 ,, M_N), cleaners, a deaeration tank, a dilution headbox, a wire section, and white water. Each component stock M_i is metered from a respective stock chest 20_i into a main line of the process where they are mixed together with a flow of dilution water. The component stocks can be, for example, pulp of long fibers, short fibers, broke, mechanical pulp, or chemical pulp. Pump 110 in the main line feeds the mixed and diluted stock through a screen 115, then through a centrifugal cleaner 120, then to the suction side of a second pump 130. The second pump 130 feeds the stock through the machine screen 140 into the headbox 150. White water is recovered from the wire section 160 and used for dilution of the stock in the main line. A plurality of feed pumps 110_i, screens 115_i, machine screens 140_i, and centrifugal cleaners 120_i can be used for the component stocks. See Figures Hautala discloses in column 10, lines 42-50, that screens and centrifugal cleaners can be omitted in situations in which the component stocks M_i have already been cleaned to a sufficiently high

level of purity before the stock chests 20_i. Only the feed pumps 130_i would be needed. This would imply that centrifugal cleaning of any one or more of the stock components can be omitted. This would also imply that centrifugal cleaning of any one or more of the stock components can be performed. In such instances where centrifugal cleaning is required for fewer than all of the stock components, it would be obvious to one skilled in the art to combine the stock streams only after each are sufficiently cleaned. Therefore, because Hautala suggests combining an accepts of one or more stock components from a hydrocyclone plant with one or more previously cleaned stock components, the claims are unpatentable.

The arrangement of the short circulation, headbox, the stock chests, and hydrocyclone plant under the circumstances given above reads on the apparatus of claim 20. The way by which stocks are handled in the above arrangement reads on the methods of claims 31, 32 and 37.

Regarding claims 21, 22, 24, 33, 34, and 38, the claimed types of stocks are disclosed by Hautala, and are suitable for either of the chests.

Regarding claims 23 and 35, because at least one stock component has been already cleaned, it would be obvious that hydrocyclones were used.

Regarding claims 24 and 36, the claimed types of stocks are disclosed by Hautala.

Regarding claims 25 and 26, the arrangement of wire pit, deaeration tank, wire water supply, machine screen, dilution water inlet header, and pumps are identically disclosed in the Figures.

Regarding claim 39, stock to be cleaned in a hydrocyclone is diluted to consistency of about 1 percent with wire water before the cleaning. See column 6, lines 55-67.

10/544,898

Art Unit: 1791

Allowable Subject Matter

Claims 27-30 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter:

The claims are allowable for further providing at least one mixing device as arranged.

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Hautala et al (WO 2004/067838) discloses a system for handling coated broke in conjunction with a short circulation loop of a paper machine.

10/544,898

Art Unit: 1791

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Eric Hug whose telephone number is 571 272-1192.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Steven Griffin can be reached on 571 272-1189. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Eric Hug

Primary Examiner